



Configuration Manual — PQ Plus

Version:2025.11.1

Table of Contents

1. Introduction 2

2. Product description 2

3. Integration via Modbus/TCP (Ethernet) 2

 3.1. Configuration of the meter 2

 3.2. Configuration of the app 2

4. Integration via Modbus/RTU (RS485) 3

 4.1. Configuration of the meter 3

 4.2. Configuration of the app 3

1. Introduction

1. Introduction

Dear customer,

The following configuration instructions describe the integration of PQ-Plus meters in FEMS. Please read these instructions carefully before starting the installation and configuration.

2. Product description

Modbus/TCP (Ethernet):

- UMD 96EL
- UMD 97EL
- UMD 97E

Modbus/RTU (RS485):

- UMD 96S
- UMD 97CBM
- UMD 97E

3. Integration via Modbus/TCP (Ethernet)

Installation and configuration of the meter [according to the manufacturer's instructions](#).

3.1. Configuration of the meter

For integration via Ethernet, the following parameters must be set in the meter itself:

- A **fixed IP address** must be assigned during the Ethernet configuration.



FEMS and PQ-Plus meter must be in the same network!

- PQ Plus also offers a BOOTP and DHCP mode. These are **incompatible** with FEMS!

3.2. Configuration of the app

When you ordered the [FEMS App Production and Consumption Meter](#), you received a 16-digit license key. You can redeem the app independently in the FEMS App Center using the license key. You can find instructions on how to do this at [here](#).

After entering the license key, the configuration interface appears.

[Konfigurationsoberfläche -- Einbindung über Modbus/TCP] |
 /other/en/meters/pq_plus/PQ_Plus_TCP.jpg

Image 1. Configuration interface — Integration via Modbus/TCP (Ethernet)

Select the device model (here: PQ Plus UMD 96EL), the type of use (here: as a production meter) and the integration (Modbus/TCP (Ethernet)).

Then enter the IP address and port from the [configuration of the meter](#) section, as well as whether you want to invert the meter values. The Modbus unit ID is only used internally and does not need to be adjusted.

Complete the setup by tapping/clicking on *INSTALL APP*.

4. Integration via Modbus/RTU (RS485)

Installation and configuration of the meter [according to the manufacturer's instructions](#).

4.1. Configuration of the meter

For integration via RS485, the following parameters must be set in the meter:

- Baud rate: 9600
- Stop bit: 1
- Parity: None

The device address (Modbus ID) can be freely selected and must be individual for each meter.

4.2. Configuration of the app

When you ordered the [FEMS App Production and Consumption Meter](#), you received a 16-digit license key. You can use this license key to redeem the app independently in the FEMS App Center. You can find instructions on how to do this at [here](#).

After entering the license key, the configuration interface appears.

4.2. Configuration of the app



The screenshot shows a configuration form for a 'PQ-Plus Zähler'. The form has a blue header bar with the title 'PQ-Plus Zähler'. Below the header, there are several input fields and dropdown menus. The fields are: 'Alias*' (text input), 'Verwendungsart*' (dropdown menu), 'Einbindung*' (dropdown menu), 'Gerätemodell*' (dropdown menu), 'Invertierung' (checkbox), 'Modbus-ID*' (dropdown menu), and 'Modbus Unit-ID*' (text input). There are also smaller labels for 'Modbus-ID der Modbus Komponente.' and 'Modbus Unit-ID des Zählers'. At the bottom left, there is a blue button labeled 'APP INSTALLIEREN'.

Image 2. Configuration interface — Integration via Modbus/RTU (RS485)

Select the device model (here: PQ Plus UMD 96S), the type of use (here: as a production meter) and the integration (Modbus/RTU (RS485)).

Then enter the Modbus ID (this may be preselected) and the Modbus unit ID.

Complete the setup by clicking *INSTALL APP*.